



Avian Influenza and Human Pandemics

Department of Health - Epidemiology, Health Statistics and Public Health Laboratories



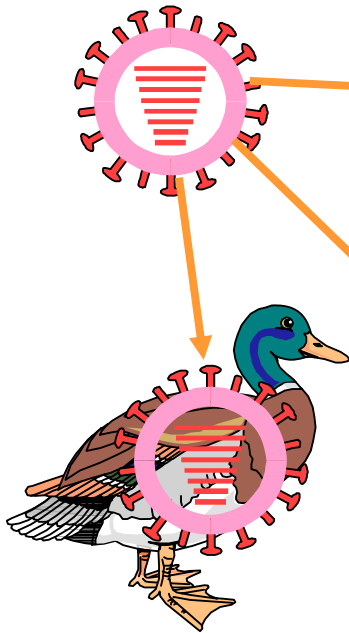
What is a pandemic?

- **An outbreak of a disease in many different countries at the same time**
- **An influenza (flu) pandemic occurs when a new flu virus spreads rapidly to many countries**
 - Most people not immune to the new flu virus
 - Vaccine may not be available for months
 - Global airline travel can spread infection widely, quickly(2003 SARS outbreak – Asia, Canada)

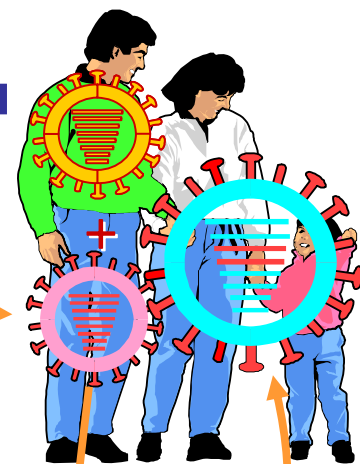
Avian (bird) flu and pandemics

- **Pandemics of flu in the 20th century have been caused by avian flu**
 - **1918 “Spanish” flu**
 - At least 10 million deaths worldwide
 - At least 500,000 deaths in the US
 - **1957 “Asian” flu**
 - At least 70,000 deaths in the US
 - **1968 “Hong Kong” flu**
 - At least 40,000 deaths in the US

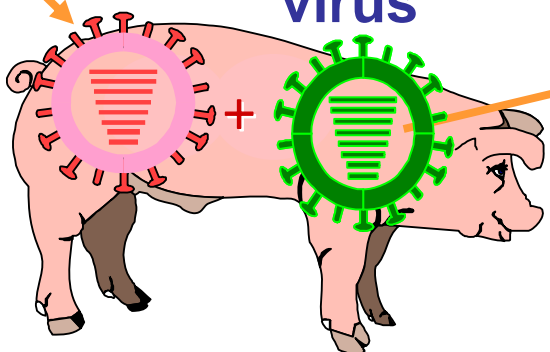
Avian flu virus



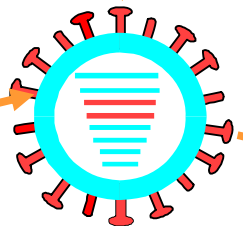
Human flu virus



Animal flu virus



Mutated virus



Why worry about flu in chickens?

- Introduction into US poultry could devastate industry
- Virus could change and develop the ability to spread easily from person-to-person
- No vaccine readily available
- Uncontrolled virus could spread rapidly – resulting in a pandemic



What if pandemic flu were to strike?

- 33 million will get sick
- 500,000 will be hospitalized
- There will be 148,000 deaths
- Workforce and essential services will be severely affected
- Businesses, schools may be forced to close

**INFLUENZA STOPS
BOUTS IN PHILLY**

PHILADELPHIA, PA., Oct. 5.—The three boxing clubs in this city were given a hard blow when, in an order issued by the board of health which closes all schools, theaters, churches, and other public places, they were ordered closed for an indefinite period owing to the rapid spread of Spanish influenza. This ruling stopped the bouts which were so popular here last night. Saturday and Sunday boxing was scheduled for next Wednesday, but the bouts were off the books.



**“Flu” Kills 77 At Camp Meade;
City Reports Show 38 Deaths;
Hopkins Suspends Its Classes**

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How are we preparing for pandemic flu?

- Pandemic flu response plan is part of the state Comprehensive Emergency Management Plan
- Provide free flu vaccine for children
- Encourage flu vaccine for adults
- Monitor flu updates from CDC and World Health Organization
- Work with other state agencies involved in flu response
- Track yearly trends in flu
- Do specialized flu testing
- Provide support for local public health

BELLEVUE THE MEDINA REFLECTOR

IS 1 OF THE FEW
THAT HASN'T THE "FLU"

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AND SO IT HAPPENS
that on October 20th, when the 30th issue of "The Reflector" is due for publication

NEARLY
**EVERYBODY
IS LAID UP WITH THE
"SPANISH INFLUENZA"**

and a taboo is placed on all public meetings making news about as scarce as feathers on a frog, except the long list of sick folks printed on pages 5, 6, 7, 8 and 9, leaving only a few folks to create, visiting news, and the most of them either have no place to go or else feel more safe at home, but what little news there is you are most surely welcome to, so you might just as well wade right in and get a zephyr while it lasts. Bob Jones breezed into BELLEVUE last Sunday after his six weeks 4000 mile auto trip thru California and Mr. and Mrs. Gordon Mc Gausman came to town the same day from Washington, D. C., and are making their home with Mrs. H. Mc Gausman, while Bob is taking baching lessons from Bill Witten in the small Mc Gausman store building, which is being remodeled into living rooms. Then young Elmer LeMoine blew into town from California on the 16th and is now driving a truck for the East Side Transportation Co., who have just purchased a brand new 1½ ton Grant Truck to help care for increased business. Elmer will probably stay awhile & here 4 the big Red Cross Canteen, which will be held early in December if the "Flu" flees the snow flies. A complete list of Canteen committees will be found on page 10. Yes, page 10 is the next issue. Look for it. To resume our story, Mrs. Maud Burley, of Portland, Oregon, is the guest of her daughters, Mrs. R. A. Russell and Mrs. H. C. Davison. The Russell family and Mrs. Burley spent the 12th and 13th with Mr. and Mrs. O. E. Thompson at Stanwood, but Miss Jo Smith spent the 12th and 14th with the "Mountaineers" at their Snoqualmie Lodge. The autumn



A man is turned away by a Seattle trolley conductor because he is not wearing a mask (Courtesy of the National Archives, 165-WW 269 B-11)

THE INFLUENZA EPIDEMIC AND HOW WE TRIED TO CONTROL IT.

BY ELIZABETH J. DAVIES, R. N.

Extra-Cantonment Zone, Camp Lewis, Washington

The Extra-Cantonment Zone extends about ten miles around Camp Lewis. It includes six small towns with population varying from 200 to 700. Two of the larger towns possess resident physicians, one a health officer, but a large portion of the people live from ten to twenty-seven miles from the services of a doctor. The population outside of the towns live either on small farms, or work

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